

02 SEP 2005

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILED UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)

10/522,274

INTERNATIONAL APPLICATION NO.  
PCT/US2003/023759INTERNATIONAL FILING DATE  
30 July 2003PRIORITY DATE CLAIMED  
30 July 2002 and 01 July 2003

## TITLE OF INVENTION

FEEDFORWARD CONTROL PROCESSES FOR VARIABLE OUTPUT HYDROGEN GENERATORS

## APPLICANT(S) FOR DO/EO/US

Bradley P. RUSSELL et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2.  This is a SECOND OR SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3.  This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  has been transmitted by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  A translation of the International Application into English (35 U.S.C. 371(c)(2)). (verified)
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  have been transmitted by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). (verified)
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (4 pages, executed, attached to a copy of the International Application)
10.  A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98. (2 pages)
12.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.  A FIRST preliminary amendment.
- A SECOND or SUBSEQUENT preliminary amendment.
14.  A substitute specification. (attached to a red-ink marked-up version of the English language translation)
15.  A change of power of attorney and/or address letter.
16.  Other items or information:
  - Copy of Notification of Missing Requirements Under 35 U.S.C. 371
  - Certificate of Mailing by Express Mail (2 pages)
  - Return Receipt Postcard
  - Form PTO-1449 (1 page), a copy of the European Search Report (2 pages), and a copy of each and every non-U.S. Patent reference

EXPRESS MAIL NO.: EV731979547US

MAILED: 02 September 2005

CUSTOMER NO.: 45481

I/ csh

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/522,274	INTERNATIONAL APPLICATION NO. PCT/US2003/023759	ATTORNEY'S DOCKET NUMBER HYI-02-102	
17. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a))</b>		<b>CALCULATIONS</b> PTO USE ONLY	
Basic National Filing Fee ..... \$ 300.00 National Stage Search Fee ..... \$ 500.00 National Stage Examination Fee ..... \$ 200.00			
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>		\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$ 130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims			X \$50.00
Independent claims			X \$200.00
<b>MULTIPLE DEPENDENT CLAIM(S) (if applicable)</b>		+ \$360.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 130.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		+ \$ 130.00	
<b>SUBTOTAL =</b>		\$ 130.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		+ \$ 130.00	
<b>TOTAL NATIONAL FEE =</b>		\$ 130.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		+ \$ 40.00	
<b>TOTAL FEES ENCLOSED =</b>		\$ 130.00	
09/12/2005 MKAYPAGH 00000120 10522274		Amount to be: refunded	\$
		charged	\$
<i>01-PC-1617 130.00 00</i>			
<p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$130.00</u> to cover the above fee is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-3550</u>. A duplicate copy of this sheet is enclosed.</p>			
<p><b>NOTE:</b> -Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p>			
 <b>SIGNATURE</b> Nick C. Kottis			
<hr/> <b>NAME</b> _____ 31,974			
<hr/> <b>REGISTRATION NUMBER</b> _____			

Rec'd POMPTO Q3 SEP 2005  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bradley P. RUSSELL et al.  
Title: FEEDFORWARD CONTROL PROCESSES FOR VARIABLE OUTPUT HYDROGEN GENERATORS  
Serial No.: 10/522,274  
Based Upon: PCT/US2003/023759  
Express Mail No.: EV731979547US  
Date of Deposit: 02 September 2005  
Customer No.: 45481

**CERTIFICATE OF MAILING BY EXPRESS MAIL**

**Mail Stop PCT**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

I hereby certify that the following requisites of the subject patent application are being deposited with the United States Postal Service as Express Mail Post Office to Addressee No. EV731979547US, on 02 September 2005, and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, together with the items listed below.

- Transmittal Letter (Form PTO-1390) (2 pages), in duplicate
- Executed Combined Declaration, Power of Attorney and Petition (4 pages), attached to a copy of the International Application

Serial No.: 10/522,274

- First Information Disclosure Statement (2 pages), Form PTO-1449 (1 page), European Search Report (2 pages), and with a copy of each and every non-U.S. Patent reference
- A check in the amount of \$130.00 to cover the fees set forth in the Transmittal Letter
- Copy of the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US)
- Return Receipt Postcard

Respectfully submitted,



Nick C. Kottis  
Registration No. 31,974

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Hoffman Estates, Illinois 60195  
TEL (847) 490-1400  
FAX (847) 490-1403



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/522,274	Bradley P Russell	HYI-02-102

INTERNATIONAL APPLICATION NO.

PCT/US03/23759

I.A. FILING DATE	PRIORITY DATE
07/30/2003	07/30/2002

Pauley Petersen & Erickson  
 2800 West Higgins Road  
 Suite 365  
 Hoffman Estates, IL 60195

RECEIVED

JUL 27 2005

Pauley Petersen &amp; Erickson

CONFIRMATION NO. 8791

371 FORMALITIES LETTER



\*OC000000016590834\*

Date Mailed: 07/22/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 01/25/2005
- Copy of the International Search Report filed on 01/25/2005
- Request for Immediate Examination filed on 01/25/2005
- U.S. Basic National Fees filed on 01/25/2005
- Priority Documents filed on 01/25/2005

*Re:sp to Missing Regs  
DOCKETED*

DATE 22 September 2005

ATTORNEY Mail

ENTERED (Signature) CSW

004492

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130** Late oath or declaration Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions

of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice MUST be returned with the response.*

VONDA M WALLACE

Telephone: (703) 308-9140 EXT 225

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/522,274	PCT/US03/23759	HYI-02-102

FORM PCT/DO/EO/905 (371 Formalities Notice)